===

Sequence listing was accepted.

If you need help call the Patent Electronic Business Center at (866) 217 – 9197 (toll free).

Reviewer: Mark Spencer

This validation was run special. 3/24/09

===

Validated By CRFValidator v 1.0.3

Input Set: c:\Patent12_Human_PCT_PatentIn_2.txt

Output Set: C:\Score-utility\crf\10535164.pdf

Started: 2009-03-23 10:45:35.252
Finished: 2009-03-23 11:57:21.135
Elapsed: 1 hr(s) 11 min(s) 45 sec(s) 883 ms
Total Warnings: 548185
Total Errors: 0
No. of SeqIDs Defined: 548185
Actual SeqID Count: 548185

Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (1)
W 402	Undefined organism found in <213> in SEQ ID (2)
W 402	Undefined organism found in <213> in SEQ ID (3)
W 402	Undefined organism found in <213> in SEQ ID (4)
W 402	Undefined organism found in <213> in SEQ ID (5)
W 402	Undefined organism found in <213> in SEQ ID (6)
W 402	Undefined organism found in <213> in SEQ ID (7)
W 402	Undefined organism found in <213> in SEQ ID (8)
W 402	Undefined organism found in <213> in SEQ ID (9)
W 402	Undefined organism found in <213> in SEQ ID (10)
W 402	Undefined organism found in <213> in SEQ ID (11)
W 402	Undefined organism found in <213> in SEQ ID (12)
W 402	Undefined organism found in <213> in SEQ ID (13)
W 402	Undefined organism found in <213> in SEQ ID (14)
W 402	Undefined organism found in <213> in SEQ ID (15)
W 402	Undefined organism found in <213> in SEQ ID (16)
W 402	Undefined organism found in <213> in SEQ ID (17)
W 402	Undefined organism found in <213> in SEQ ID (18)
W 402	Undefined organism found in <213> in SEQ ID (19)
W 402	Undefined organism found in <213> in SEQ ID (20)

Input Set: c:\Patent12_Human_PCT_PatentIn_2.txt

Output Set: C:\Score-utility\crf\10535164.pdf

                  Started: 2009-03-23 10:45:35.252
                 Finished: 2009-03-23 11:57:21.135
                  Elapsed: 1 hr(s) 11 min(s) 45 sec(s) 883 ms
          Total Warnings: 548185
            Total Errors: 0
 No. of SeqIDs Defined: 548185
     Actual SeqID Count: 548185

Error code   Error Description

              This error has occured more than 20 times, will not be displayed

RAW SEQUENCE LISTING   DATE: 03/23/2009
PATENT APPLICATION: US/10/535,164B   TIME: 15:11:10

Input Set : C:\CRF4\abss\input\20090331A\10535164.raw
Output Set: C:\CRF4\ABSS\EXPORT\20090331A\J535164B.raw

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 5 <110> APPLICANT: Itzhak Bentwich, et al.
 7 <120> TITLE OF INVENTION: Bioinformatically detectable group of novel
regulatory genes and uses thereof
 9 <130> FILE REFERENCE: 050992.0200.13USPC
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/535,164B
13 <141> CURRENT FILING DATE: 2006-07-24
15 <150> PRIOR APPLICATION NUMBER: PCT/IL03/00970
17 <151> PRIOR FILING DATE: 2003-11-16
19 <150> PRIOR APPLICATION NUMBER: US 60/468,251
21 <151> PRIOR FILING DATE: 2003-05-07
23 <160> NUMBER OF SEQ ID NOS: 548185
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27 <210> SEQ ID NO: 1
28 <211> LENGTH: 73
29 <212> TYPE: RNA
30 <213> ORGANISM: Human
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35 uuaacaacuu uuu                                                       73
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 62
40 <212> TYPE: RNA
41 <213> ORGANISM: Human
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46 uu                                                                   62
49 <210> SEQ ID NO: 3
50 <211> LENGTH: 78
51 <212> TYPE: RNA
52 <213> ORGANISM: Human
54 <400> SEQUENCE: 3
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57 ugcaaguuuu cauguuuu                                                  78
60 <210> SEQ ID NO: 4
61 <211> LENGTH: 78
62 <212> TYPE: RNA
63 <213> ORGANISM: Human
65 <400> SEQUENCE: 4
66 aaaagcugga uugcugauuu uugcuaauaa acaagauguu aaagaaugca ugacuguagc    60
68 agaaaucucc caguuuuu                                                  78
71 <210> SEQ ID NO: 5
72 <211> LENGTH: 85
73 <212> TYPE: RNA
74 <213> ORGANISM: Human
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RAW SEQUENCE LISTING   DATE: 03/23/2009
PATENT APPLICATION: US/10/535,164B   TIME: 15:11:10

Input Set : C:\CRF4\abss\input\20090331A\10535164.raw
Output Set: C:\CRF4\ABSS\EXPORT\20090331A\J535164B.raw

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77 aaaaucauaa ggacaaaaau cugcugaugc ugugagauaa aaccgaugau ucugcaguca      60
79 auuuguuuug uaccugugug guuuu                                           85
82 <210> SEQ ID NO: 6
83 <211> LENGTH: 116
84 <212> TYPE: RNA
85 <213> ORGANISM: Human
87 <400> SEQUENCE: 6
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90 aaucauguag uaaaugcuca guagugugug ugugugugug ugugugugug uauuuu        116
93 <210> SEQ ID NO: 7
94 <211> LENGTH: 100
95 <212> TYPE: RNA
96 <213> ORGANISM: Human
98 <400> SEQUENCE: 7
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101 gcaauaucaa ggaagggcag gcgugauggc uuauuuguuu                         100
104 <210> SEQ ID NO: 8
105 <211> LENGTH: 72
106 <212> TYPE: RNA
107 <213> ORGANISM: Human
109 <400> SEQUENCE: 8
110 aaacaucauu uuaaaauguc uucagcauuu uuugaauaga cguauucaaa cauauucuga      60
112 acauugaugu uu                                                        72
115 <210> SEQ ID NO: 9
116 <211> LENGTH: 77
117 <212> TYPE: RNA
118 <213> ORGANISM: Human
120 <400> SEQUENCE: 9
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123 gugaaacagg ucucuuu                                                   77
126 <210> SEQ ID NO: 10
127 <211> LENGTH: 73
128 <212> TYPE: RNA
129 <213> ORGANISM: Human
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134 ugacauuggc uuu                                                       73
137 <210> SEQ ID NO: 11
138 <211> LENGTH: 79
139 <212> TYPE: RNA
140 <213> ORGANISM: Human
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145 acuuuuugcu gaauccuuu                                                 79
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151 <213> ORGANISM: Human
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156 guaaccccaa ggucgggacg gguuuuu                                         87
159 <210> SEQ ID NO: 13
160 <211> LENGTH: 80
161 <212> TYPE: RNA
162 <213> ORGANISM: Human
164 <400> SEQUENCE: 13
165 aaaggggaga cuuaaaauuu gcuccaaugu caguucucua cagaugagaa ccaauacuac      60
167 agcaaguaag ucuugccuuu                                                 80
170 <210> SEQ ID NO: 14
171 <211> LENGTH: 108
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173 <213> ORGANISM: Human
175 <400> SEQUENCE: 14
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178 ccucacaacc ugcugauaug cugugguuuu ucuugguccu aucucuuu               108
181 <210> SEQ ID NO: 15
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183 <212> TYPE: RNA
184 <213> ORGANISM: Human
186 <400> SEQUENCE: 15
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189 ccugcaguuu uacuaccuuu                                                 80
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193 <211> LENGTH: 79
194 <212> TYPE: RNA
195 <213> ORGANISM: Human
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204 <211> LENGTH: 79
205 <212> TYPE: RNA
206 <213> ORGANISM: Human
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215 <211> LENGTH: 111
216 <212> TYPE: RNA
217 <213> ORGANISM: Human
219 <400> SEQUENCE: 18
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222 acuauagacu uuauaaacau uguacacuua gacuacacua aacauaauuu u             111
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226 <211> LENGTH: 96
227 <212> TYPE: RNA
228 <213> ORGANISM: Human
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237 <211> LENGTH: 79
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239 <213> ORGANISM: Human
241 <400> SEQUENCE: 20
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244 gcacaguauu aacacauuu                                                   79
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248 <211> LENGTH: 78
249 <212> TYPE: RNA
250 <213> ORGANISM: Human
252 <400> SEQUENCE: 21
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255 aagacagagg uugaauuu                                                    78
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259 <211> LENGTH: 90
260 <212> TYPE: RNA
261 <213> ORGANISM: Human
263 <400> SEQUENCE: 22
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266 auccuucuuu uucucuuuug cccacaauuu                                       90
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270 <211> LENGTH: 90
271 <212> TYPE: RNA
272 <213> ORGANISM: Human
274 <400> SEQUENCE: 23
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277 agguaaaugc guuguauguu uugucauguu                                       90
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281 <211> LENGTH: 65
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283 <213> ORGANISM: Human
285 <400> SEQUENCE: 24
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288 agguu                                                                 65
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293 <212> TYPE: RNA
294 <213> ORGANISM: Human
296 <400> SEQUENCE: 25
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299 caauaucaag gaagggcagg cgugauggcu uauuuguu                             98
302 <210> SEQ ID NO: 26
303 <211> LENGTH: 94
304 <212> TYPE: RNA
305 <213> ORGANISM: Human
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RAW SEQUENCE LISTING   DATE: 03/23/2009
PATENT APPLICATION: US/10/535,164B   TIME: 15:11:10

Input Set : C:\CRF4\abss\input\20090331A\10535164.raw
Output Set: C:\CRF4\ABSS\EXPORT\20090331A\J535164B.raw

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310 gucuccaagc aacaaugugg uuccuauuca uguu                                 94
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314 <211> LENGTH: 72
315 <212> TYPE: RNA
316 <213> ORGANISM: Human
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321 uuugaaauug uu                                                         72
324 <210> SEQ ID NO: 28
325 <211> LENGTH: 97
326 <212> TYPE: RNA
327 <213> ORGANISM: Human
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332 ggaaaacgca cgcacuuagg cauggcgauc uccuguu                              97
335 <210> SEQ ID NO: 29
336 <211> LENGTH: 82
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338 <213> ORGANISM: Human
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343 auucagucuc aggcccucug uu                                              82
346 <210> SEQ ID NO: 30
347 <211> LENGTH: 103
348 <212> TYPE: RNA
349 <213> ORGANISM: Human
351 <400> SEQUENCE: 30
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354 aaauuuuuau gaagccaauu ucccugcaaa ugucauggau guu                      103
357 <210> SEQ ID NO: 31
358 <211> LENGTH: 77
359 <212> TYPE: RNA
360 <213> ORGANISM: Human
362 <400> SEQUENCE: 31
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365 ucuucaugcc cuggguu                                                    77
368 <210> SEQ ID NO: 32
369 <211> LENGTH: 81
370 <212> TYPE: RNA
371 <213> ORGANISM: Human
373 <400> SEQUENCE: 32
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376 ugggacaccg cugcugaggu u                                               81
379 <210> SEQ ID NO: 33
380 <211> LENGTH: 104
381 <212> TYPE: RNA
382 <213> ORGANISM: Human
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 03/23/2009
PATENT APPLICATION: US/10/535,164B   TIME: 15:11:11

Input Set : C:\CRF4\abss\input\20090331A\10535164.raw
Output Set: C:\CRF4\ABSS\EXPORT\20090331A\J535164B.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the
<220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:17654; N Pos. 20
Seq#:19916; N Pos. 18
Seq#:52020; N Pos. 28
Seq#:59474; N Pos. 8,9,10
Seq#:63151; N Pos. 2
Seq#:63152; N Pos. 2
Seq#:77314; N Pos. 6
Seq#:78810; N Pos. 29
Seq#:110924; N Pos. 28
Seq#:125723; N Pos. 29
Seq#:128279; N Pos. 31
Seq#:148177; N Pos. 18
Seq#:173057; N Pos. 31
Seq#:183537; N Pos. 22
Seq#:207018; N Pos. 22
Seq#:217308; N Pos. 5
Seq#:219323; N Pos. 11,19
Seq#:225290; N Pos. 30
Seq#:238061; N Pos. 27
Seq#:260898; N Pos. 3
Seq#:260899; N Pos. 3,4,5
Seq#:269038; N Pos. 8
Seq#:274697; N Pos. 28
Seq#:279130; N Pos. 27
Seq#:280135; N Pos. 4
Seq#:288191; N Pos. 23
Seq#:304070; N Pos. 22
Seq#:317086; N Pos. 32
Seq#:318088; N Pos. 4
Seq#:329136; N Pos. 30
Seq#:332252; N Pos. 27
Seq#:336402; N Pos. 32
Seq#:341837; N Pos. 31
Seq#:351747; N Pos. 13
Seq#:370659; N Pos. 17
Seq#:372265; N Pos. 30
Seq#:381062; N Pos. 30
Seq#:382821; N Pos. 21
Seq#:383437; N Pos. 29
Seq#:385816; N Pos. 7
Seq#:391072; N Pos. 2,27
Seq#:407387; N Pos. 31
Seq#:416031; N Pos. 24
Seq#:418467; N Pos. 31

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 03/23/2009
PATENT APPLICATION: US/10/535,164B   TIME: 15:11:11

Input Set : C:\CRF4\abss\input\20090331A\10535164.raw
Output Set: C:\CRF4\ABSS\EXPORT\20090331A\J535164B.raw

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Seq#:436086; N Pos. 20,28
Seq#:448669; N Pos. 4
Seq#:465548; N Pos. 23,31
Seq#:466876; N Pos. 24
Seq#:471539; N Pos. 2,3,4
Seq#:471540; N Pos. 2,5
Seq#:482820; N Pos. 1
Seq#:482821; N Pos. 1
Seq#:482822; N Pos. 1,2
Seq#:482823; N Pos. 1,2,3
Seq#:492800; N Pos. 28,29,30
Seq#:504259; N Pos. 6
Seq#:510796; N Pos. 25
Seq#:515695; N Pos. 29
Seq#:525050; N Pos. 24,32
Seq#:537139; N Pos. 9
Seq#:544195; N Pos. 29
Seq#:548161; N Pos. 33,37,38,42,43,47,48,50
Seq#:548163; N Pos. 3,4,8,9
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Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 7

VERIFICATION SUMMARY   DATE: 03/23/2009
PATENT APPLICATION: **US/10/535,164B**   TIME: 15:11:11

Input Set : **C:\CRF4\abss\input\20090331A\10535164.raw**
Output Set: **C:\CRF4\ABSS\EXPORT\20090331A\J535164B.raw**

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L:11 M:270 C: Current Application Number differs, Replaced Current Application
Number
L:176061 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17654 after pos.:0
L:196424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19916 after pos.:0
L:485365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52020 after pos.:0
L:552456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59474 after pos.:0
L:585554 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63151 after pos.:0
L:585568 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63152 after pos.:0   .
L:713031 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77314 after pos.:0
L:726500 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78810 after pos.:0
L:1015531 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110924 after pos.:0
L:1148727 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125723 after pos.:0
L:1171736 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:128279 after pos.:0
L:1350823 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:148177 after pos.:0
L:1574748 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:173057 after pos.:0
L:1669073 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:183537 after pos.:0
L:1880407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:207018 after pos.:0
L:1973022 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:217308 after pos.:0
L:1991167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:219323 after pos.:0
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L:2159819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:238061 after pos.:0
L:2365357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:260898 after pos.:0
L:2365371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:260899 after pos.:0
L:2438627 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:269038 after pos.:0
L:2489563 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:274697 after pos.:0
L:2529465 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:279130 after pos.:0
L:2538515 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:280135 after pos.:0
L:2611024 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:288191 after pos.:0
L:2753940 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:304070 after pos.:0
L:2871089 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:317086 after pos.:0
L:2880112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:318088 after pos.:0
L:2979549 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:329136 after pos.:0
L:3007598 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:332252 after pos.:0
L:3044953 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:336402 after pos.:0
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L:3353281 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:370659 after pos.:0
L:3367740 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:372265 after pos.:0
L:3446918 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:381062 after pos.:0
L:3462754 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:382821 after pos.:0
L:3468303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:383437 after pos.:0
L:3489719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:385816 after pos.:0
L:3537033 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:391072 after pos.:0
L:3683873 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:407387 after pos.:0
L:3761674 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:416031 after pos.:0
L:3783603 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:418467 after pos.:0
L:3942184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:436086 after pos.:0
L:4055436 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:448669 after pos.:0
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VERIFICATION SUMMARY   DATE: 03/23/2009
PATENT APPLICATION: **US/10/535,164B**   TIME: 15:11:11

Input Set : **C:\CRF4\abss\input\20090331A\10535164.raw**
Output Set: **C:\CRF4\ABSS\EXPORT\20090331A\J535164B.raw**

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L:4261305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:471540 after pos.:0
L:4362830 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:482820 after pos.:0
L:4362844 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:482821 after pos.:0
L:4362858 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:482822 after pos.:0
L:4362872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:482823 after pos.:0
L:4452670 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:492800 after pos.:0
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L:4915260 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:544195 after pos.:0
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STATISTICS SUMMARY   DATE: 03/23/2009
PATENT APPLICATION: **US/10/535,164B**   TIME: 15:11:11

Input Set : **C:\CRF4\abss\input\20090331A\10535164.raw**
Output Set: **C:\CRF4\ABSS\EXPORT\20090331A\J535164B.raw**

Application Serial Number: US/10/535,164B
Alpha or Numeric or Xml: Numeric
Application Class:
Application File Date: 07-24-2006
Art Unit:
Software Application: PatentIN3.3
Total Number of Sequences: 548185
Total Nucleotides: 16807183
Total Amino Acids: 0
Number of Errors: 0
Number of Warnings: 63
Number of Corrections: 1

MESSAGE SUMMARY

270 C: 1 (Current Application Number differs)
341 W: 63 ((46) "n" or "Xaa" used)

<110>   Itzhak Bentwich, et al.

<120>   Bioinformatically detectable group of novel regulatory genes and
uses thereof

<130>   050992.0200.13USPC

<140>   US 10/543,164

<141>   2006-07-24

<150>   PCT/IL03/00970

<151>   2003-11-16

<150>   US 60/468,251

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<170>   PatentIn version 3.3

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